

LAZAREVSKY S. A.
EXCERPTA MEDICA Sec 2 Vol 12/7 Physiology July 59

2581. A DOUBLE MANOMETRIC APPARATUS FOR THE ANALYSIS OF BLOOD GASES (Russian text) - Derviez G. V. and Lazarevsky S. A. Inst. of Hematol. and Blood Transf., Min. of Publ. Hlth of USSR, Moscow - VOPR. MED. KHIMII 1958, 4/6 (464-466) Illus. 2

The apparatus consists of 2 connected Van Slyke manometric apparatuses with one common levelling bulb for mercury and one motor, which is rocking 2 extraction chambers firmly united in one mobile block. This type of apparatus allows one worker to conduct simultaneously 2 analyses, which shortens considerably the comparatively lengthy procedure. This model is most convenient for the performance of 2 parallel assays of one and the same blood sample, or for the simultaneous analysis of arterial and venous blood, etc.

DERVIZ, G.V.; GARFUNKEL', M.L.; LAZAREVSKIY, S.A. (Moskva)

Change in the respiratory function of the blood, gas exchange and hemodynamics following hemotransfusion during hypothermia. Pat. fiziol. i eksp. terap. 6 no.6:30-35 N-D'62 (MIRA 17:3)

1. Iz Tsentral'nogo ordena Lenina instituta gematologii i perelivaniya krovi (dir. - dotsent A.Ye. Kiselev).

KOZINER, V.B.; ~~LAZAREVSKIY~~, S.A. (Moskva)

Coronary circulation and myocardial gas exchange in replacement of blood loss by polyglucin and blood. Pat. fiziol. eksp. ter. 7 no.5:22-29 S-0'63 (MIRA 17:2)

1. Iz patofiziologicheskoy laboratorii (zav. - chlen-korrespondent AMN SSSR prof. N.A. Fedorov) i biokhimicheskoy laboratorii (zav. - prof. G.V.Derviz) Tsentral'nogo ordena Lenina instituta gematologii i perelivaniya krovi (direktor - dotsent A.Ye.Kiselev).

SKOPINA, S.B.: LAZAREVSKIY, S.A.

Study of the gas permeability of plastic blood bags. Probl. gemat.
i perel. Krovi 8 no 9:16-17 S '63. (MIRA 17:9)

1. Iz laboratorii konservirovaniya krovi (zav. - prof. F.R.Vinograd-Finkel') i biokhimicheskoy laboratorii (zav. - prof. G.V.Derviz) Tsentral'nogo ordena Lenina instituta gematologii i perelivaniya krovi (dir.- dotsent A.Ye.Kiselev) Ministerstva zdravookhraneniya SSSR.

DERVIZ, G.V., prof.; SABUROVA, I.V.; LAZAREVSKIY, S.A.

Fibrinolytic activity of preserved cadaver blood. Probl.
gemat. i perel. krovi 9 no.3:49-53 Mr '64. (MIRA 17:10)

1. Biokhimicheskaya laboratoriya (zav.- prof. G.V. Derviz)
TSentral'nogo ordena Lenina instituta gematologii i perelivaniya
krovi (dir.- dotsent A.Ye. Kiselev) Ministerstva zdravookh-
raneniya SSSR.

LAZAREVSKIY, V.^S (g. Gor'kiy).

Observations of Arend-Roland's comet (1956 h). Astron. tsir. no.183:
3-4 Ял '57. (MIRA 11:3)

(Comet--1956)

LAZAREVSKIY, V.S.

TERNO; ZVEREV; VASIL'YEV; PARSHIN; VSEKHSVYATSKIY; TIKHOV; KHAVTASI; BAKHAREV;
LAZAREVSKIY

Mrkos' comet (1957 d). Astron.tsir. no.184:1-3 S '57.

(MIRA 11:4)

(Comets--1957)

LAZAREVSKIY, V.S.

Letter to the editor. Number of eclipses in the saros and the
saros series. Biul.Inst.teor.astron. 7 no.1:78-87 '58.
(MIRA 13:4)

(Eclipses)

LAZAREVSKIY, V.S.

Number of eclipses in the saros and in a saros series. Biul.VAGO
no.23:24-25 '58. (MIRA 11:11)

1. Gor'kovskoye otdeleniye Vsesoyuznogo astronomo-geodezicheskogo
obshchestva.

(Eclipses)

LAZAREVSKIY, V. (g. Gor'kiy).

Observations of Mrkos' comet (1957 d). Astron. tsir. no.188:7-9
Ja '58. (MIRA 11:6)

(Comets--1957)

KULAGIN, S.G.; KOVBASYUK, L.D.; DAGAYEV, M.M.; LAZAREVSKIY, V.S.; KAVERIN, A.A.; KUKLIN, G.V.; CHERNYKH, N.S.; DEMIDOVICH, Ye.G.; BRONSHTEIN, V.A.; YAKHONTOVA, N.S. (Leningrad); PEROVA, N.B.; DOKUCHAYEVA, O.D.; KATASEV, L.A.; MASEVICH, A.G.; SHCHERBINA-SAMOYLOVA, I.S.; ARSENT'YEV, V.V.; FRANK-KAMENETSKIY, D.A.; LEYKIN, G.A.; SHCHEGLOV, P.V.; PEREL', Yu.G.; BAKULIN, P.I., otv.red.; MASEVICH, A.G., red.; PARENAGO, P.P., red.; RAKHLIN, I.Ye., red.; AKHLAMOV, S.N., tekhn.red.

[Astronomical calendar. A yearbook; variable section for 1959]
Astronomicheskii kalendar'. Ezhegodnik. Peremennaya chast',
1960. Red.kollegiia P.I.Bakulin i dr. Moskva, Gos.izd-vo fiziko-
matem.lit-ry, 1959. 351 p. (Vsesoiuznoe astronomo-geodezicheskoe
obshchestvo, no.63) (MIRA 13:1)

1. Gosudarstvennoye astronomo-geodezicheskoye obshchestvo (GAGO)
(for Kulagin, Kovbasyuk, Lazarevskiy, Demidovich). 2. Moskovskoye
otdeleniye Vsesoyuznogo astronomo-geodezicheskogo obshchestva
(MOVAGO) (for Dagayev, Bronshten, Perova).
(Astronomy--Yearbooks)

KULAGIN, S.G.; KOVBASYUK, L.D.; DAGAYEV, M.M.; LAZAREVSKIY, V.S.;
DEMIDOVICH, Ye.G.; BRONSHTEIN, V.A.; YAKHONTOVA, N.S. (Leningrad);
KUROCHKIN, N.Ye.; DOKUCHAYEVA, O.D.; SHCHERBINA-SAMOYLOVA, I.S.;
MASEVICH, A.G.; LIPSKIY, Yu.N.; MARTYNOV, D.Ya.; ARSENT'YEV, V.V.;
MOROZ, V.I.; MASEVICH, A.G.; PEREL', Yu.G.; BAKULIN, P.I., otv.
red.; KULIKOV, G.S., red.; AKHLAMOV, S.N., tekhn. red.

[Astronomical calendar; yearbook. Variable part, 1962] Astronomicheskii kalendar'; ezhegodnik. Peremennaya chast', 1962. Red. kollegiia: P.I. Bakulin i dr. Moskva, Gos. izd-vo fiziko-matem. lit-ry, 1961. 259 p. (Vsesoiuznoe astronomo-geodezicheskoe obshchestvo, no. 65)
(MIRA 14:12)

1. Gosudarstvennoye astronomo-geodezicheskoye obshchestvo (for Kalugin, Kovbasyuk, Lazarevskiy, Demidovich). 2. Moskovskoye ot-deleniye Vsesoyuznogo astronomo-geodezicheskogo obshchestva (for Dagayev, Bronshten, Kurochkin).
(Astronomy—Yearbooks)

S/033/63/040/001/002/016
E032/E314

AUTHORS: Lazarevskiy, V.S., Stankevich, K.S. and Troitskiy, V.S.
TITLE: Absolute precision measurements of the flux density of
the 3.2 cm radiation from the Crab and Orion nebulae
PERIODICAL: Astronomicheskii zhurnal, v. 40, no. 1, 1963,
12 - 16

TEXT: The flux density due to the discrete source Tau A and the Orion nebula was determined absolutely, using the method described by one of the authors et al (Izv. vyssh. uch.zav., Radiofizika, 4, no. 6, 1961), in which the received signal is compared with the thermal radio emission of a perfectly black disc placed in the Fraunhofer zone of the antenna. A parabolic antenna, 4 m in diameter, was employed. The beamwidth at half-power points was 37' and the real sensitivity of the radiometer at a time constant of 64 sec was 0.2 °K. Measurements on the Tau A radiation were carried out at different parallactic angles. It was assumed that the degree of polarization was 7% and that the position angle was 148°. Since the reception was carried out with horizontal polarization, the observations had to be reduced in Card 1/2

Absolute precision

S/033/63/040/001/002/016'
EO32/E314

accordance with these figures to obtain the total flux density²⁴ As
a result of 40 determinations, an average figure of 5.6×10^{-24} W
 $m^{-2} cps^{-1}$ was obtained for Tau A with an estimated r.m.s. error of 5%.
The result for the central part of the Orion nebula (6' .
diameter) was 4.5×10^{-24} Wm⁻² cps⁻¹ with an estimated r.m.s. error
of 7%. The latter result was obtained using the brightness
distribution reported by Yu.N. Pariyskiy (Astron.zh., 38, 798,
1961). If the distance of the Orion nebula is assumed to be
450 ps and the angular diameter is 20', then the average elec-
tron density turns out to be of the order of 3000. The electron
density at the centre of the nebula is estimated as $8\ 000\ cm^{-3}$.
It is noted that previous measurements of the flux density were
less accurate (15-20%) as compared with the results now reported.
There are 1 figure and 1 table.

ASSOCIATION: Radiofizicheskiy in-t Gor'kovskogo gosudarstvennogo
universiteta (Radiophysics Institute of Gor'kiy
State University)

SUBMITTED: December 7, 1961
Card 2/2

LAZAREW, E.N.; GAJEWSKI, Zdzislaw [translator]

Rational layout and arrangement of a modern laboratory.
Pomiary 9 no.1:27-29 Ja '63.

LAZAREVSKIY, V. S.; STANKEVICH, K. S.; TROITSKIY, V. S.

Precise absolute measurements of radio emission fluxes of the
Crab and Orion nebulae at the 3,2 cm. wavelength. Astron.
zhur. 40 no.1:12-16 J-F '63. (MIRA 16:1)

1. Radiofizicheskiy institut Gor'kovskogo gosudarstvennogo
universiteta.

(Radio astronomy) (Nebulae)

LAZAREVSKIY, V.S.

A dark lunar eclipse. Biul. VAGO no.35:45 '64. (MIRA 18:4)

1. Gor'kovskoye otdeleniye Vsesoyuznogo astronomo-geodezicheskogo obshchestva i Ekspeditsiya Nauchno-issledovatel'skogo radiofizicheskogo instituta Gor'kovskogo gosudarstvennogo universiteta.

UKHANOVA, Nina Vasil'yevna; LEBEDEVA, Lidiya Vladimirovna; LAZAREV-
STANISHCHEV, Boris Vladimirovich; RAVKIND, B.M., red.;
LEBEDEVA, G.T., tekhn. red.; BUCHOVA, T.I., tekhn. red.

[Medical aid for the drowning victim] Meditsinskaia po-
moshch' utonuvshemu. Leningrad, Medgiz, 1962. 62 p.

(MIRA 15:10)

(DROWNING, RESTORATION FROM)

1. 5 Kliniki Poloznietwa i Chorob Kobiacych Wydział Lekarski
w Zagrzebju, Jugosławia (Kierownik: prof. dr. med. A. Stanković).

1. 5 Kliniki Poloznietwa i Chorob Kobiacych Wydział Lekarski
w Zagrzebju, Jugosławia (Kierownik: prof. dr. med. A. Stanković).

LAUTNER, G.

LAUTNER, G. Organization of a national committee for participation
in international conferences on electronic war and electronic warfare. p. 203

Vol. 1, no. 12, Dec. 1956
ELECTROTECHNICA
TECHNICAL
JOURNAL

See: East European Accession, Vol. 4, No. 5, May 1957

LAZARIDE, G.

Specifications of the International Electrotechnical Commission for paper
condensers with direct current. p. 178.

(Standardizarea, Vol. 9, No. 4, Apr. 1957, Bucuresti, Rumania)

SO: Monthly List of East European Accessions (EEAI) Lc. Vol 6, No. 8, Aug 1957. Uncl.

LAZARIDE, G.

Observations on the State Standard R 4146-53 Steam Boilers, Drums and Collectors,
Calculation Rules. p. 375.
(STANDARIZAREA. Vol. 9, no. 8, Aug. 1957, Rumania)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 6, No. 12, Dec. 1957
Uncl.

TROYANOV, Pavel Mikhaylovich; LAZARIDI, Il'ya Grigor'yevich; FAKTOR,
B.S., tekhn. red.

[Mechanization and automatic control at the Mirgalimsay Ore
Dressing Plant] Mekhanizatsiia i avtomatizatsiia na Mirgalimsai-
skoi obogatitel'noi fabrike. Alma-Ata, TSentr. in-t nauchno-
tekhn. informatsii, 1960. 12 p. (MIRA 15:4)

(Mirgalimsay--Ore dressing)
(Metallurgical plants--Equipment and supplies)

LAZARIDI, O.I., student VI kursa

Capillaroscopic changes in children in scarlet fever and diphtheria.
Zdrav.Kazakh. 16 no.9:31-34 '56. (MIRA 10:1)

1. Iz kafedry detskikh infektsionnykh bolezney (zav. kafedroy -
dotsent T.N.Nikonova) Kazakhskogo gosudarstvennogo meditsinskogo
instituta imeni V.M.Molotova.

(SCARLET FEVER) (DIPHTHERIA) (CAPILLARIES)

LAZARIDIS, K.G., Cand Tech Sci -- (diss) "On the problem of improving the aroma of tea." Tbilisi, Pub House of Georgian Agr Inst, 1959, 24 pp (Min of Agr USSR. Georgian Order of Labor Red Banner Agr Inst) 100 copies (KL, 20-59, 127)

- 65 -

LAZARIEW, N. W.

Szkodliwe substancje w przemyśle (Noxious substances in the industry),
by N. W. Lazariew. Reported in New Books, (Nowe Ksiazki), No. 6, March 15,
1956.

LAZARIS, N. A.

LAZARIS, N.A., referent .

Determining the quality of coke (indices of physical properties)
(from "Indian Mining Journal," no.8 1956). Koks i khim. no.10:58-59
'57. (MIRA 10:11)

(Coke)

LAZARIS, N.A.

LAZARIS, N.A., referent.

~~Hardness of coal~~ (from "Fuel," 35 no.4 1956). Koks i khim.
no.8:59-60 '57. (MLRA 10:8)
(Japan--Coal--Testing)

ZIL'BERMAN, Ye.N.; LAZARIS, A.Ya.

Mechanism of the reaction of substituted benzonitriles with hydrogen
chloride and certain nucleophilic reagents. Zhur. ob. khim. 31
no.3:980-984 Mr '61. (MIRA 14:3)
(Benzonitrile)

ZIL'BERMAN, Ye. N.; LAZARIS, A. Ya.

New reaction of chloroacetonitrile with hydrogen chloride and
alcohols. Zhur. ob. khim. 31 no.4:1321-1324 Ap '61.

(MIRA 14:4)

(Acetonitrile)

ZIL'BERMAN, Ye.N.; LAZARIS, A.Ya.; CHERNYSHOVA, M.A.

Hydration of sulfocyanides in the presence of hydrogen chloride.
Zhur.VKHO 7 no.1:109-110 '62. (MIRA 15:3)
(Thiocyanates) (Hydration) (Hydrochloric acid)

LAZARIS, A.Ya.; ZIL'BERMAN, Ye.N.; STRIZHAKOV, O.D.

Products of interaction of haloacetonitriles with hydrohalides
and their reactions with nucleophilic reagents. Zhur.ob.khim.
32 no.3:900-905 Mr '62. (MIRA 15:3)
(Acetonitrile) (Hydrogen halides)

ZIL'BERMAN, Ye.N.; LAZARIS, A.Ya.

Reaction of organic thiocyanates with water in the presence
of hydrogen chloride. Zhur.ob.khim. 33 no.3:1023-1026
Mr '63. (MIRA 16:3)
(Thiocyanates) (Hydrochloric acid) (Hydration)

L 33227-65 EWT(π)/EPF(c)/EWP(j)/T/EWA(c) Pc-4/Pr-4 RM

ACCESSION NR: AP5006086

S/0204/55/005/001/0166/0171

AUTHOR: Lazaris, A. Ya.

TITLE: Identification of impurities in vinyl chloride¹

SOURCE: Neftskhimiya, v. 5, no. 1, 1965, 166-171

TOPIC TAGS: vinyl chloride, organic analysis, vinyl chloride production, vinyl chloride impurity, gas liquid chromatography, acetylene hydrochlorination, polyethyleneglycol adipate, dioctyl phthalate, tricresyl phosphate

ABSTRACT: An analytical method and some experimental results are presented for the identification of trace impurities in vinyl chloride. The monomer was produced by hydrochlorination of acetylene on a mercury catalyst, acetylene being generated from calcium carbide. Rectification, vaporization of the bottom residue to 1 vol% of the initial volume and chromatography of the concentrate with a hydrogen carrier on polyethyleneglycol adipate on a brick support permitted the clear identification of only methanol and acetaldehyde. Ethyl chloride, vinyl bromide, 2-chloro-1-propene, cis-1-chloro-1-propene, vinylidene chloride, propyl chloride, trans-1,2-dichlorethylene and 1,1-dichloroethane were additionally

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ACCESSION NR: AP5006086

identified by preparative gas-liquid chromatography¹ of the distillation concen-
trate with a nitrogen carrier, chromatography of the fractions on a composite⁵
column containing sections of polyethyleneglycol adipate, dioctyl phthalate and
tricresyl phosphate on brick NIZ-600, and chemical tests for differentiating the
various peaks. The experimental setup permitted the use of the same detector
for the preparative and analytic columns. "The author thanks Ye. N. Zil'berman,
Ye. M. Perepletchikova and V. S. Etlis for their advice and Ya. I. Yashin for
reading the manuscript." Orig. art. has: 5 figures.

ASSOCIATION: None

SUBMITTED: 21Apr64

ENCL: 00

SUB CODE: 0C

NO REF SOV: 006

OTHER: 006

Card 2/2

LAZARIS, A.Ya.; ZIL'BERMAN, Ye.N.; LUNICHEVA, E.V.; VEDIN, A.M.

Study of the formation of by-products during hydrogenation of
adiponitrile. Zhur. prikl. khim. 38 no.5:1097-1101 My '65.
(MIRA 18:11)

L 00434-67 EWP(m)/EWP(j)/EWP(t)/ETI IJP(c) JD/WW/WM
ACC NR: AP0030856 (A,N) SOURCE CODE: UR/0191/66/000/009/0054/0055

AUTHOR: Kotol'nikova, T. B.; Lazaris, A. Ya.; Poropletchikova, Ye. M.

CAS: none

TITLE: Qualitative analysis of metals in polymer compositions

SOURCE: Plasticheskiye massy, no. 9, 1966, 54-55

TOPIC TAGS: qualitative analysis, metal analysis, polyvinyl chloride

ABSTRACT: Metals may be present in articles made of polymers and in polymer compositions as ingredients of stabilizers, admixtures, and impurities. A method was developed for a qualitative analysis of metals and silicon in polymers. The separation of the total cations involves the use of hydrogen sulfide and final identification of the cations in groups by paper chromatography. The method does not require any complex apparatus and makes it possible to work with small amounts of material. It was checked by analyzing polyvinyl chloride compositions and finished articles. In the analysis, the polymer is burned up, and the ash is dissolved in HCl either immediately or after fusion with carbonates. If the sample contains silicon, the latter is separated, and the total cations are separated by means of H₂S. As compared to the usual procedure, the following improvements were made in the chromatographic analysis: (1) analysis for titanium is performed; (2) Cd^{II} and Pb^{II} are separated with a new solvent system (boiling with aqua regia, evaporating to dryness, extracting the residue with

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UDC: 678.743.22.01:543.061:546.1

L. 08434-67
ACC NR: 126030856

~1 2
HCl, and chromatographing the solution); (3) Ba^{II} is developed with sodium rhodizonate. The data obtained were compared with emission spectroscopy data, and a good agreement was found. Authors thank G. N. Afon'shin for recording the spectra. Orig. art. has: 1 table.

SUB CODE: 11,07/ SUBM DATE: none/ OTH REF: 003

Cont. 2/2 13

LAZARIS, S. A.

Agriculture

Extending the cultivation of grapes to the north Moskva, Gos. izd-vo sel' -khoz. lit-ry
1950

Monthly List of Russian Accessions, Library of Congress, August, 1952. UNCLASSIFIED.

LAZARIS, S. A.

Agriculture

Viticulture in the center belt of the R.S.F.S.R. Moskva, Sel'khozgiz, 1952

Monthly List of Russian Accessions. Library of Congress, June 1953. Uncl.

LAZARIS Ya. A.																									
PROCESSING AND PROPERTIES INDEX													100 AND 4TH CROSS												
<p>Nature of the hormone in the posterior lobe of the hypophysis which mobilizes liver glycogen. Ya. A. Lazaris. <i>Biokhimiya</i> 6, 247-52(1941).—Injection of an aq. ext. of the posterior lobe of the hypophysis (pig) into white mice causes the mobilization, in about 2 hrs., of 88% of the liver glycogen. The active substance is vasopressin. H. Priestley</p>																									
<p>ASA-SLA METALLURGICAL LITERATURE CLASSIFICATION</p>																									
<p>100 AND 4TH CROSS</p>																									

1ST AND 2ND CROSS																										3RD AND 4TH CROSS																									
PROCESS AND PROPERTIES INDEX																																																			
<div style="display: flex; justify-content: space-between;"> ca 113 </div> <p>Alloxan diabetes. I. The dependence of the course of diabetes in rats on the method of administration of alloxan and the blood and pancreatic levels. Ya. A. Lazaris and T. G. Ugodnikova (Inst. Med., Gorki, U.S.S.R.). <i>Bull. Eksp. Biol. Med.</i> 22, No. 4, 40-53(1946); cf. C.A. 41; 7407c.—The injection of 100 mg./kg. of alloxan (I) into the tail vein of white rats weighing between 140 and 200 g. invariably produced diabetes. The subcutaneous administration of 200-300 mg./kg. of I resulted in diabetes in most cases. A second injection produced diabetes in animals refractory to the first dose. The feeding of as much as 2000 mg./kg. of I by stomach tube had no effect on the animals; this indicates a rapid destruction of I in the gastro-intestinal tract. The symptoms resulting from I were triphasic. The animals showed an initial hyperglycemia followed by a hypoglycemia in 7 hrs. and a final hyperglycemia within 24 hrs. When I was given intravenously, it could be detected in the blood and pancreas within 1 min., and disappeared very rapidly thereafter. I was destroyed quickly when it was added to whole blood, serum, or plasma at 37°.</p> <p style="text-align: right;">Eugene Roberts</p>																																																			
<div style="display: flex; justify-content: space-between;"> <div> <p>ASB-5L4 METALLURGICAL LITERATURE CLASSIFICATION</p> <p>ASB-5L4</p> </div> <div> <p>ASB-5L4</p> <p>ASB-5L4</p> </div> </div>																																																			

Alloxan diabetes. II. Causes of initial variations of blood sugar in white mice after administration of alloxan. Ya. A. Lazaris and T. G. Ugodnikova. *Izv. Akad. Nauk SSSR Med. Biol.* 1948, 22, No. 5, 13-16 (1949); cf. *Ibid.* No. 4, 40-43 (1946). White rats were adrenalectomized under ether after a 14-18-hr. fast. The blood sugar was detd. in a no. of them at regular intervals. The others were injected with alloxan (40 mg. per 100 g.) and their blood sugars were detd. 55-120 min. later. Rats which had lost only one adrenal gland showed a hyperglycemia which increased considerably after alloxan. In animals losing both adrenal glands the blood sugar 95-135 min. after the operation was essentially normal, but injection of alloxan led to a severe and often fatal hypoglycemia which set in more rapidly than in the case of animals with intact glands. Thus it was confirmed that the initial hyperglycemia after injection of alloxan is the result of interaction of the latter with the adrenal glands. In a 2nd expt. white rats were injected with alloxan (30-40 mg./100 g.) and then decapitated at intervals up to 36 hrs. Their blood (0.2 cc.) was injected into white mice which were decapitated 1-2 hrs. later. The blood sugar of the mice was substantially the same as in controls when the rats were killed during the hyperglycemic phase of alloxan poisoning. However, the blood of rats killed during the height of the hypoglycemic phase (15-8 hrs.) caused a pronounced hypoglycemia in the mice. This result indicates that during the hypoglycemic phase of alloxan diabetes there is a large amt. of insulin in the blood which causes the catastrophic fall of the blood sugar.

III. Influence of fat-rich food on the course of diabetes in white rats. Ya. A. Lazaris and E. R. Brzezinskaya (Med. Inst., Gorky). *Ibid.* No. 6, 36-40. White rats in which diabetes was induced by alloxan (200-300 mg./kg.) were kept on a normal diet for 20 days, then on a diet contg. 70% of hog tallow and 30% normal feed. Immediately after initiation of the latter diet diuresis decreased sharply and glucose was essentially absent from the urine. The blood sugar level was 90-130 mg. %. After 10 days the normal diet was resumed but a return of glucose excretion was not observed during 2 weeks (duration of expt.). Observations 62 days later showed the same picture. The diet used in these expts. differed from that of Burn, Lewis, and Kelsey (*C. I.* 30, 463-3) in its lower protein content. In another series, after diabetes was induced the animals were fed a diet of hog tallow, lean beef, vitamins and minerals (salts). The fat level was raised slowly up to 70%; in these expts. diuresis was small and the glucose level in the urine was very low. Return to the normal diet led immediately to increased diuresis and glucose excretion. With the high-fat low-protein diet ketone bodies were absent from the urine; with a high protein intake they were always present.

G. M. Kosolapoff

G. M. Kozlovskii

A.S.M. S.I.A. METALLURGICAL LITERATURE CLASSIFICATION

LAZARIS, Ya.A.

Alloxan diabetes. Vrachebnoe delo 27, 1167-72 (columns, not pp.) '47.
(CA 47 no.21:11538 '53)

1. Inst. Ind. Hyg., Gorki.

USSR/ Human and Animal Physiology - (Normal and Pathological).
Internal Secretion. Pancreas.

T

Abs Jour : Ref Zhur Biol., No 4, 1959, 17727

Author : Lazaris, Ya.A.

Inst : Karaganda Medical Institute

Title : Experimental Diabetes Induced by Uric Acid.

Orig Pub : Tr. Karagandinsk. med. in-ta, 1957, 1, No 1, 7-9

Abstract : Rabbits received feed with a large amount of carbohydrates and poor in methionine and cystine with the aim of decreasing the content in blood of restoral glutathione, which destroys alloxan. After introduction of 1 g/kg of uric acid (I), increase of glycemia to 184 mg% was noted, with the normalization of the latter after 6 days. In intraperitoneal introduction to rats that were maintained on a usual diet of 320-340 mg/kg of I, glycemia did not

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LAZARIS, Ya.A.; SEREBROVSKAYA, I.A. (Karaganda)

Modern views on the experimental treatment of pulmonary edema [with summary in English]. Arkh.pat. 20 no.3:3-15 '58. (MIRA 11:5)

1. Iz kafedry patologicheskoy fiziologii (zav.-prof. Ya.A. Lazaris)
Karagandinskogo meditsinskogo instituta (dir.-dotsent P.M. Pospelov)
(PULMONARY EDEMA, ther.
review (Rus)

LAZARIS, Ya.A. (Karaganda)

Experimental dithizone diabetes. Pat.fiziol. i eksp.terap. 3 no.4:
83-88 Jl-Ag '59. (MIRA 12:12)
(DIABETES MELLITUS experimental)
(INDICATORS AND REAGENTS pharmacology)

IAZARIS, Ya. A., prof. (Karaganda)

Physiology and pathology of zinc metabolism. Pat. fiziol. i eksp.
terap. 4 no. 5:75-82 S-O '60. (MIRA 13:12)
(ZINC METABOLISM)

LAZARIS, Ya.A., prof.; SEREBROVSKAYA, I.A., dotsent (Karaganda)

Electron microscope structure of the wall of the pulmonary alveolus
and changes in the pulmonary edema. Arkh.pat. 22 no. 4-12 '60.

(MIRA 14:1)

1. Iz kafedry patologicheskoy fiziologii (zav. - prof. Ya.A. Lazaris)
Karagandinskogo meditsinskogo instituta (direktor - dotsent P.M.
Poshepelov).

(PULMONARY EDEMA)

LAZARIS, Ya.A., prof.; SEREBROVSKAYA, I.A., dotsent

Pathogenesis of pulmonary edema. Sov. med. 24 no.6:97-105 Je '60.
(MIRA 13:9)

1. Iz kafedry patologicheskoy fiziologii (zav. -- prof. Ya.A.Lazaris)
Karagandinskogo meditsinskogo instituta (dir. - dotsent P.M.Pospelov).
(PULMONARY EDEMA)

LAZARIS, Ya.A., prof.; SEREBROVSKAYA, I.A., dotsent

"Material on the pathology of blood proteins and disorders of
vascular permeability" ("Collected papers from the Department
of Pathophysiology of Stalinabad Medical Institute," no.4).
Reviewed by I.A.Lazaris, I.A.Serebrovskaya. Pat.fiziol.i
eksp.terap. 5 no.1:95 Ja-F '61. (MIRA 14:6)
(BLOOD PROTEINS) (BLOOD VESSELS—PERMEABILITY)

LAZARIS, Ya.A.; SEREBROVSKAYA, I.A.; POLEZHAYEV, Ye.F., red.;
ROMANOVA, Z.A., tekhn. red.

[Pulmonary edema] Otek legkikh. Moskva, Medgiz, 1962. 368 p.
(MIRA 15:4)

(PULMONARY EDEMA)

ZIL'BERMAN, Ye.N.; LAZARIS, A.Ya.; PETUKHOV, G.G.; STRIZHAKOV, O.D.;
GANINA, V.I.

Interaction of nitriles with heavy water and deuterium chloride.
Dokl. AN SSSR 142 no.1:96-98 Ja '62. (MIRA 14:12)

1. Nauchno-issledovatel'skiy institut khimii pri Gor'kovskom
gosudarstvennom universitete im. N.I. Lobachevskogo. Predstavleno
akademikom B.A. Arbuzovym.
(Nitriles) (Deuterium compounds)

LAZARIS, Ya.A., prof.; SEREBROVSKAYA, I.A. (Karaganda)

Principia therapeutic methods in pulmonary edema and their
pathophysiological aspects. Klin.med. no.12:7-14 '61. (MIRA 15:9)

1. Iz kafedry patologicheskoy fiziologii (zav. - prof. Ya.A.
Lazaris) Karagandinskogo meditsinskogo instituta (dir. - dotsent
P.M. Pospelov).

(PULMONARY EDEMA)

LAZARIS, Ya.A.; SEREBROVSKAYA, I.A. (Karaganda)

Reactions of the blood vessels of the pulmonary circulation
to chemical stimuli. Pat. fiziol. i eksp. terap. 6 no.1:3-9
Ja-F '62. (MIRA 15:3)

(PULMONARY CIRCULATION)
(DRUGS--PHYSIOLOGICAL EFFECT)

LAZARIS, Yakov Aronovich; SEREBROVSKAYA, Irina Alekseyevna; POLEZHAYEV,
I.E.P., red.; BASHIMAKOV, G.M., tekhn. red.

[Pulmonary circulation] Legochnoe krovoobrashchenie. Moskva,
Medgiz, 1963. 242 p. (MIRA 16:9)
(PULMONARY CIRCULATION)

LAZARIS, Ya.I., professor

Work of the Karaganda Province Society of Pathologists in April
1954 - December 1956. Arkh.pat. 19 no.7:90-92 '57. (MLRA 10:9)

1. Predsedatel' Karagandinskogo oblastnogo obshchestva patologov
(ANATOMY, PATHOLOGICAL)

HORN, Zoltan, dr.; LAZARITS, Jeno, dr.; NAGY, Janos, dr.; FENYES, Gyorgyne, dr.;
PALKOVITS, Miklos, dr.

Use of radioiodine for diagnostic purposes in diseases of the thyroid gland. Magy.radiol. 14 no.4:205-207 J1 '62.

1. Fovarosi Karolyi Korhaz Izotop Laboratoriuma es Sebeszeti Osztalya,
Orvosi Fizikai Intezet (Budapest), Orszagos Onkologiai Intezet,
Anatomiai Intezet (Budapest).

(THYROID GLAND dis) (IODINE radioactive)

LAZARITS, Jeno, dr.; GOMORI, Andras

Treatment of supracondylar humeral fractures in children. *Magy. sebeszet* 7 no.1:40-43 Feb 54.

1. Fovarosí Arpad Kórház sebeszeti osztályáról, igazgató-sebeszfoorvos: dr. Lazarits Jeno.

(HUMERUS, fract.

surg., Kirschner's nailing in child.)

(FRACTURES

humerus, supracondylar, surg., Kirschner's nailing in child.)

HORN, Zoltan, dr.; LAZARITS, Jeno, dr.

Practical problems of varicose veins and thrombosis. Orv. hetil.
97 no.38:1050-1054 16 Sept 56.

1. A Fovarosí Karolyi Sándor Kórház Sebészeti Osztályának
(igazgató-sebészfeorvos: Lazarits, Jeno, dr.) és Laboratóriumának
(feorvos: Horn, Zoltan, dr. az orvostudományok kandidátusa)
közleménye.

(THROMBOSIS
(Hun))

LAZARITS, Jeno, dr.

Chronic fibrous inflammatory disease of the thyroid (Riedel's struma). *Magy.sebeszet* 13 no.5:311-316 0 '59.

1. Budapest IV. ker. Tanacs Karolyi S. korhaz sebeszeti osztalyanak (igazgato sebeszeti oszt. vez. foorvos: Lazarits Jeno dr.) kozlemenye.

(THYROID GLAND dis)

HORN, Zoltan, Dr.; LAZARITS, Jeno, Dr.; ALANT, Oszkar, Dr.

Panthesin and hydergine therapy of postthrombotic edemas. Orv. hetil.
100 no.2:77-78 11 Jan 59.

1. A Fovarosí Karolyi Sándor Kórház Sebészeti Osztályának (igazgató-
főorvos: Lazarits Jeno dr.) és Laboratóriumának (főorvos: Horn Zoltan dr.,
az orvostudomány kandidátusa) közleménye.

(THROMBOSIS, compl.

postthrombotic synd., prev. & ther. by N, N-diethyleucineon-p
-aminobenzoic acid methanesulfonate - hydergine prep. (Hun))

(AMINO BENZOATES, ther. use

N,N-diethyleucineon-p-aminobenzoic acid methanesulfonate -
hydergine prep. in prev. & ther. of postthrombotic synd.

(ERGOT ALKALOIDS, ther. use

hydergine - N,N-diethyleucineon-p-aminobenzoic acid methane-
sulfonate prep. in prev. & ther. of postthrombotic synd.

LAZARITS, Jenó, dr.; ROZSA, Maria, dr.

Studies on the microflora of the bile in patients with cholelithiasis.
Orv. hetil. 102 no.38:1788-1790 17 S '61.

1. Fovarosí Karolyi Sándor Korház, Sebészeti Osztály és II Belosztály,
Budapest.

(CHOLELITHIASIS microbiol) (BILE microbiol)

LAZARITS, Jeno, dr.; HORVATH, Nandor, dr.

Changes in the blood sugar level in surgical operations with the use of various anesthetics. Magy. sebesz. 17 no.1:18-25 F'64.

1. Karolyi Sandor korhaz (igazgato: Lazarits, Jeno, dr., sebesz főorvos) sebészeti osztálynak közleménye.

*

LAZARITS, J.; ALANT, O.

Surgical interventions on the lower extremities in diabetics.
Acta chir. acad. sci. Hung. 6 no.3:259-272 '65.

1. Chirurgische Abteilung (Chefarzt: Dr. J. Lazarits) des
Károlyi Sándor-Krankenhauses, Budapest. Submitted October 10,
1964.

LAZARIVITS L. and KAROLYI St. * The importance of liver damage during
antisyphilitic treatment, and its avoidance (Hungarian text) BÖRGYÖGY VENER.
SZLE 1953, 29 (43)

The authors review the Hungarian data and conclude that arsenobenzene treatment is mostly contra-indicated on account of liver damage. The urobilinogentest is of value only if the urine is diluted 20 times with water. Mild disturbances of the colloid lability tests are no hindrance to arsenobenzene treatment. Six months after subsidence of the icterus, careful arseno-benzene treatment can be resumed with adequate laboratory control. In 94 cases they found - independently of the previous treatment - a positive liver-function test. These cases were treated by penicillin. In 73 unproved cases syphilitic origin of the liver-damage was considered.

Földvári - Budapest

SO: EXCERPTA MEDICA Sect. XIII Vol. 8 No. II

LACARAW, J. (Sovjetonic)

Weightless liquid on the earth. Slet and 19 no. 43:2292 27 " 161.

DRAGULESCU, C.; LAZAR-JUCU, D.

Study of the formation of bismuthyl chromate in solution.
Bul St si Tehn Tim 7:29-37 '62.

ACC NR: AP6036065

(A, N)

SOURCE CODE: UR/0432/66/000/005/0041/0043

AUTHOR: Dashevskiy, L. N. (Candidate of technical sciences); Pleskonos, A. K.;
Lazarkevich, I. A.; Medvedev, R. B.

ORG: none

TITLE: Multiple point device in a system for the digital registration of parameters

SOURCE: Mekhanizatsiya i avtomatizatsiya upravleniya, no. 5, 1966, 41-43

TOPIC TAGS: computer input unit, computer research, analog digital conversion

ABSTRACT: A breadboard model of a system for the digital recording of parameters, including single and multiple point secondary devices, is briefly described. The multiple point devices do not have a continuous time relationship between the sliding element of the rheochord and the value of the parameter. The correspondence between the voltage picked up from the rheochord and the variable parameter occurs when the carriage is lowered on the chart paper of the device. A block diagram of the system is presented and discussed. Orig. art. has: 3 figures.

SUB CODE: 09/

SUBM DATE: none

UDC: 681.14 : 62-50

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S/044/63/000/002/046/050
A060/A126

AUTHOR: Lazarkiewicz, Andrzej

TITLE: A laboratory model of an electronic digital computer with arithmetic based on -2

PERIODICAL: Referativnyy zhurnal, Matematika, no. 2, 1963, 80, abstract 2V451
(Compte rendu 1-er sympos. internat. calculs géodes. Cracovie, 1959, Kraków, 1961, 339 - 341; English; summary in French)

TEXT: The author announces the design at the Warsaw Polytechnic Institute of a new general-purpose sequential electronic digital computer with number base "-2", designed for carrying out scientific investigations. The speed of the computer is of the order of 100 operations per second. The speed of the carried out from a punched tape, the output by means of printers. The memory unit is in the form of a magnetic drum with storage capacity of 128 words. The word length is 34 digits, the address part of the word is 12 digits long. A description is given of the system for representing numbers to the base "-2". Such a number may be written in the form:

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A laboratory model of an electronic digital

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$$\alpha = (...a_{p1}, a_0, a_{-1}...)_{-2} = \sum_1 a_i (-2)^i,$$

where a_i are the numbers 0 or -1, written as "0" or "1". Thus, for example, the number "-4" is represented in the form "100", the number "-3" - as "111", the number "4" - as "1100", and so on, i.e., negative numbers contain an odd, and positive numbers an even number of digits. A block diagram is given of an adder of numbers to the base "-2" as well as a table defining the order of operation of this adder. Multiplication is carried out by subtracting the multiplier from that digit of the multiplier by which the multiplication is being carried out at any given moment; for this the multiplicand is shifted by one digit. It is indicated that the algorithms of other arithmetical operations, such as division and extraction of a square root have a structure similar to the structure of the algorithms for these operations over numbers with base "+2". However, in the laboratory model of the computer these operations have not been realized.

V.S. Zhdanov

[Abstracter's note: Complete translation]

Card 2/2

LAZARKIEWICZ, Bogdan

Posttraumatic leg ulcer cured by sleep therapy; Przegl. dermat. 49
no. 5:427-429 '62.

1. Z Oddziału Chirurgicznego II Szpitala im. L. Rydygiera we
Wrocławiu Ordynator: dr W. Adamek.
(LEG ULCER) (SLEEP)

CZEREDA, Tadeusz; BADER, Otton; LAZARKIEWICZ, Bogdan; BROSS, Tadeusz

Apropos of surgical therapy of chronic recurrent intestinal
obstruction. Pol. tyg. lek. 19 no.22:834-836 25 My'64

1. Z II Kliniki Chirurgicznej Akademii Medycznej w Wrocławiu;
kierownik: prof. dr. med. Wiktor Bross.

LAZARKIEWICZ, Bogdan; CZEREDA, Tadeusz

Use of epoxy resin for the preparation of anatomical specimens.
Folia morph. (Warsz.) 24 no.2:215-217 '65.

1. Z II Kliniki Chirurgicznej AM we Wroclawiu (Kierownik: prof.
dr. W. Bross).

SAWICZ, Wiktor; LAZARKIEWICZ, Bogdan; CISZEWSKI, Wladyslaw; SNIEZEK, Jozef

Jejunal peptic ulcer. Wiad. lek. 18 no.17:1409-1411 1 S '65.

1. Ze Szpitala Powiatowego w Boleslawcu (Ordynator: dr. W. Sawicz).

LAZARKIEWICZ, Szczepan, inż.

High-pressure centrifugal pumps for the feeding of steam boilers.
Przegl mech 22 no.14:436-439 25 JI '63.

1. Główny konstruktor, Warszawska Fabryka Pomp, Warszawa.

25(2)

FOL/35-60-4-4/27

AUTHOR: Lazarkiewicz, Szczepan, Engineer

TITLE: Self-Priming Rotary Pumps³

PERIODICAL: Przegląd Mechaniczny, 1960, Nr 4, p 91 - 97

ABSTRACT: In this article the author describes several types of rotary self priming pumps produced in western countries. He divides the pumps into following types: a) Single and two-stage rotary selfpriming pumps with water circulating on the periphery of the impeller. Their efficiency is 20 - 25%. Improved version of similar type shows 40% efficiency and lifting power up to 7 m. b) Selfpriming peripheral pumps with 45 - 50 % efficiency and initial lifting power up to 4 m, while an already working pump can lift the water from 7 m. c) Self-priming centrifugal pumps, d) Selfpriming rotary pumps with auxiliary ejector and e) Selfpriming centrifugal pumps, including vacuum pumps, are characterized by high efficiency. There are 22 figures, 3 graphs, 1 photo

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POL/35-60-4-4/27

Self-Priming Rotary Pumps

and 8 references of which 2 are Polish, 3 English,
1 German and 2 Czech.

ASSOCIATION: Warszawska Fabryka Pomp (Warsaw Pump Manufacturing
Plant) Warsaw. ✓

Card 2/2

LAZAROFF, Mikolaj

A rapid colorimetric method for the determination of potassium in the blood serum. Pol. tyg. lek. 19 no.15:556-557 6 Ap '64.

1. Z Laboratorium Klinicznego w Sofii (kierownik: M. Lazaroff).

LAZAROIU, Dumitru F., conf. ing.

Development of the electronic industry in Rumania.
Electrotehnica 10 no.6:231-235 Je '62.

1. Director al uzinelor Electronica, Bucuresti.

LAZAROIU, Dumitru F., ing. (Bucuresti)

Introduction of modern technological processes at the Electronica
Plant in Bucharest. Electrotehnica 12 no.1/2:39-46 Ja-F '64.

1. Director of the "Electronica" Plant, Bucharest.

LAZAROIU, D.F., ing.; UDRESCU, Petre; VECAS, Alexandru; RADU, Emilia; CARACASIAN, E., ing.; BANDI, Fr.; TAIGAR, S., ing.

Present problems on establishing labor norms. Probleme econ 17 no.7: 151-156 J1 '64.

1. Direktor, "Electronica" Plant, Bucharest (for Lazaroiu). 2. Director, Iprofil Bucharest (for Udrescu). 3. Head of the Department of Labor Organization, Iprofil Bucharest (for Vecas). 4. Director, "Rascoala din 1907" Textile Enterprise, Bucharest (for Radu). 5. Chief Engineer, "Rascoala din 1907" Textile Enterprise, Bucharest (for Caracasian). 6. Director, "Bucuresti" Glass Factory (for Bandi). 7. Chairman of the State Committee for Labor and Wage Problems (for Taigar).

L 44755-66

ACC NR: AP6032895

SOURCE CODE: RU/0004/65/000/007/0247/0252

AUTHOR: Lazaroiu, Dumitru F. (Lecturer; Engineer; Director of Institute; Bucharest) ³⁷ ₁₃

ORG: Research and Planning Institute (Institutul de cercetari si proiectari electrotehnice)

TITLE: Some considerations concerning the design of electrical machines with windings based on printed circuits

SOURCE: Electrotehnica, no. 7, 1965, 247-252

TOPIC TAGS: electric equipment, printed circuit

ABSTRACT: An analysis of the operation of printed-circuit windings for use in electrical machines, with emphasis on their thermal behavior, and a summary of the calculations and design features to be considered when they are used. Sample calculations are given. Orig. art. has: 7 figures, 30 formulas and 2 tables. [Based on author's Eng. abst.] [JPRS]

SUB CODE: 09 / SUBM DATE: 03May65 / ORIG REF: 002 / SCV REF: 002
OTH REF: 003

UDC: 621.313.29.045.15.001.24

Card 1/1 ULR

0920 0412

LAZAROIU, F.

Construction of machinery commutators for direct current. p.47. (ELECTROTEHNICA,
Bucuresti, Vol. 1, No. 1/2, Jan./Feb. 1953)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 6, June 1955, Uncl.

L 48239-65 FSS-2/EEC-4/EEC(t) Pn-4/Pp-4/Pac-4

ACCESSION NR: AP5014062

RU/0005/64/008/005/0198/0209 26
B

AUTHOR: Lazaroiu, F. (Engineer)

TITLE: The development of the electronics industry in the Rumanian People's Republic

SOURCE: Telecommunicatii, v. 8, no. 5, 1964, 198-209

TOPIC TAGS: electric research facility, electronic industry

ABSTRACT: (Author's English summary modified): An article summarizing the achievements of the Rumanian electronics industry under the current regime. The contributions of the design institutes, the research centers, and the institutions of higher learning are presented, as are the activities of the Central Telecommunications Laboratory. The development and principal products of the Electronic Electromagnetica, Automatica and IPRS-Baneasa factories are described in some detail, and future plans of the industry are discussed. Orig. art. has 19 figures.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: EC

NO REF SOV: 000

OTHER: 000

JPRS.

Card 1/1

LAZAROIU, F. D., ing.; POPESCU, Pascal, dr. ing.

Soldering problem in radiotechnics. Telecomunicatii 5 no. 4:
160-170 J1-Ag '61.

LAZAROIU, F.D., ing.

1,000,000 radio receivers. Telecommunicatii 6 no.2:84-90 Mr-Lp
'62.

LAZAROIU, F.D.

Development of the electronic industry in Rumania. Telecommunicatii
8 no. 5:198-209 Ag '64.

R/004/61/000/002/001/001
A231/A126

AUTHOR: Lăzăroiu, Felician, Assistant, Engineer, Manager (Bucharest)
TITLE: The technology of printed circuits and their use in the electro-technical industry
PERIODICAL: Electrotehnica, no. 2, 1961, 37 - 49

TEXT: After a general introduction on the purpose of printed circuits the author briefly reviews the materials used in their production as well as the principle of all production methods. The list of the materials mentioned is based on the NEMA (National Association of Electrical Manufacturing) specifications. Due to their importance, the Uzinele "Electronica" ("Electronica" Plant) will soon start the production of printed circuits by the method of chemical etching. The production process will include the photographing, the cutting of the base plates, the preparation of the silk-screening pattern, the printing process and the chemical etching of the plates. The base plates will first be made of imported XXXP-type supports, coated with electrolytic copper foils. The production of copper foil in a copper sulfate electrolyte will be accomplished in a pilot station at the "Electronica" Plant, which will cover the initial demands of the

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Rumanian plants manufacturing printed circuits. For the fixing of the copper foil to the support plate, ICECHIM has developed a mixed adhesive consisting of poly-amyl-butyrol and bakelite. ICECHIM will also be able to produce an epoxy adhesive, similar to that produced in other countries. The cutting of the plates will be done by shears or guillotine shears. The black ink used in the silk screening process was developed by the MIPC Laborator central de cercetări lacuri și cerneluri (MIPC Central Research Laboratory of Lacquers and Inks). The ink is diluted with white spirit or boiled linseed oil and dried for 5-6 hours in the air or for 1 hour in a drying chamber. The printed plates will be etched for 2 - 3 min in ferric chloride baths, rinsed, dried and finally inspected for quality. The application of printed circuits in the production of coils of electric motors will be described in a future article. There are 9 figures, 5 tables and 17 references: 8 Soviet-bloc, and 9 Non-Soviet-bloc. The references to the 4 most recent English-language publications read as follows: Paul Eisler: The technology of printed circuits, Heywood, London, 1959, 32-36; E.A. Appes: Printing Ink Technology, Leonard Hill Books, London, 1958, 400; New standards for laminated plastics. Latest NEMA ratings based on high temperature performance. Electronics,

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The technology ...

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A231/A126

32, 1959, 35, 48-49; and George Sideris, Materials for environmental. Extremes,
Electronics, 32, 1959, 49, 85.

ASSOCIATION: Uzinele "Electronica" ("Electronica" Plant)

SUBMITTED: December 7, 1960

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22351

R/005/61/000/002/001/002
D019/D105

9.4300 (1156, 1137, 1147)

AUTHOR: Lăzăroiu, Felician D., Engineer

TITLE: Present stage of soft ferrite production by the "Electronica" Plant in Bucharest

PERIODICAL: Telecomunicații, no.2, 1961, 54 - 61

TEXT: After a general introduction on soft ferrites, the article briefly describes the production and characteristics of several soft ferrites made in Rumania. Research on the production of soft ferrites is being conducted by "ICET", the Uzinele "Electronica" ("Electronica" Plant) and the ICSMTT=Institutul de cercetări științifice al Ministerului Transporturilor și Telecomunicațiilor (Scientific Research Institute of the Ministry of Transportation and Telecommunications). Abstracter's note: ICET is the abbreviation of Institutul de cercetări electrotehnice (Electrotechnical Research Institute) 7. "ICET" in co-operation with "Electronica" developed the following cores for high-frequency coils used in radios: manganese oxide and zinc oxide ferrites of the $MnO.ZnO.Fe_2O_3$ type, "Maferit 400", for a maximum frequency of 1.5 Mc;

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and nickel oxide ferrites of the $\text{NiO} \cdot \text{ZnO} \cdot \text{Fe}_2\text{O}_3$ type, "Niferit 20", for a maximum frequency of 30 Mc. Mixed ferrites of manganese oxide and nickel oxide of the $\text{MnO} \cdot \text{NiO} \cdot \text{ZnO} \cdot \text{Fe}_2\text{O}_3$ type were developed by the ICSMTT. Iron oxide with a minimum content of 95% Fe_2O_3 is used for "Maferit 400" while for "Niferit 20" pure iron oxalate is used, the ash of which must contain a minimum of 98% Fe_2O_3 after calcination. The use of 99% Fe_2O_3 iron oxide obtained by precipitation and calcination of iron sulfate, is in the experimental stage. The other raw materials used in ferrite production are pure manganese carbonate, nickel carbonate, STAS 421-57 zinc oxide and pure tylose. "Maferit 400" has the formula $(\text{MnO})_{0.3}(\text{ZnO})_{0.16}(\text{Fe}_2\text{O}_3)_{0.54}$, and "Niferit 20" $(\text{NiO})_{0.304}(\text{ZnO})_{0.032}(\text{Fe}_2\text{O}_3)_{0.664}$. Homogenization is carried out by wet ball-mill grinding of the mixture for 18 - 24 hrs. The mixture obtained is then filtered, with

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a filter press, and dried in a hot-air drying oven at a temperature of 140°C, until the weight remains constant at a certain number of successive weighings. Pre-sintering is carried out at 950°C for 4 hrs, in a sintering furnace. To obtain the fineness required for efficient sintering, the humid pre-sintered material is ground in a ball mill for 48 hrs followed by filtering in the filter press. The material is then dried in a hot-air drying oven at 140°C. The mixture is mixed with a 5% solution of tylose and the desired shape obtained by extrusion. Sintering is performed by heat treatment lasting 3-4 hrs in a continuous furnace, at temperatures varying between 1,090°C and 1,200°C, followed by rapid cooling in the case of "Maferit", or slow cooling in the case of "Niferit" ferrites. For "Niferit 20" the sintering temperature is 1,090°C, at which level it stays for 5 hrs, after which it is cooled slowly in the furnace. Research is carried out with the purpose of devising one single heat treatment for both types of ferrites. The experience of the "Electronica" Plant shows the impossibility of estab-

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lishing the final composition of manganese, zinc and nickel-zinc ferrites unless the temperature and duration of the sintering process, the shape of the heat-treatment graph, particularly in the cooling phase, the composition of the furnace atmosphere, the pre-sintering conditions, and the quality are known and determined. Some of the difficulties will be eliminated by replacing iron oxide with iron oxalate, and by using a neutral atmosphere such as nitrogen. The "Electronica" Plant uses "Niferit 20" soft ferrites in the production of coil cores for short wave reception and "Maferit 400" for medium and long wave reception and for IF transformers. The values of Q and M_{ap} , obtained in the standard production of the "Electronica" Plant, and their comparison with the test samples made available by ICET and Laboratorul Central al Telecomunicațiilor = LCT (Central Telecommunication Laboratory) are shown in tables 3 and 4. /Abstracter's note: original reads "8" and "9". In table 5 the characteristics of Rumanian ferrites are compared with the

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Present stage of soft ferrite production by the "Electronica" Plant in Bucharest

Hungarian "Magnolit" and "Niferit" ferrites and with the East German "Magnet" ferrites. The "Electronica" Plant will start the production of ferrites for antennas, the laboratory development of which was carried out by LCT and ICET. Ferrites developed by LCT have characteristics similar to those of ferrites produced abroad. The comparative results of antennas made of ferrite developed by LCT and of those imported from Hungary are shown in table 6. The ICET also worked out another production process for I.A., IB2 and N ferrites for antennas. The magnetic characteristics of these together with those of foreign products are given in table 7. In 1961 the "Electronica" Plant will apply the ICET technological process for production of miniature ferrites suitable for shifting and memory operations. The composition of material in these products is shown in table 8. Table 9 shows the characteristics of "Magmaferit", with rectangular hysteresis loop developed by ICET. There are 3 figures, 9 tables and 13 references: 12 Soviet-bloc and 1 non-Soviet-bloc.

Card 5/15

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Author : ~~Lozarov A.~~ Kalanaras Ye., Shakhpazov

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